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PATENT
Docket No. P1379



IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: SHIH-KWANG WU
TING-GUNG CHANG
CHIN-LU TSENG EXAMINER: UNKNOWN
LI-JUNG CHEN
KAE-SHYANG SHIH

SERIAL NO.: 10/016,569 ART UNIT: UNKNOWN

FILED: DECEMBER 7, 2001

TITLE: SOLID PHASE METHOD FOR SYNTHESIS PEPTIDE-SPACER-LIPID
CONJUGATES, CONJUGATES SYNTHESIZED THEREBY AND
TARGETED LIPOSOMES CONTAINING THE SAME

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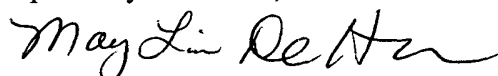
In connection with the above-referenced matter, transmitted herewith are the following:

1. Transmittal Letter (2 pages);
2. Information Disclosure Statement (2 pages);
3. Form PTO-1449 (2 pages);
4. US 5,969,099;
5. US 5,789,382;
6. EP0 620 008 A1;
7. WO 00/03245;
8. JP 60-109599;
9. WO 97/15593;
10. Maruyama et al., Biochim Biophys Acta. 1995, 1234, 74-80;
11. Allen T.M., Trends Pharmacol Sci. 1994, 15, 215-220;
12. Ahmad et al., Cancer Res. 1993, 53, 1484-8;
13. Suzuki et al., Biochim Biophys Acta., 1995, 1245, 9-16;

14. Eavarone et al., J Biomed Mater Res. 2000, 51, 10-4;
15. Gabizon et al., Bioconjug Chem. 1999, 10, 289-98;
16. Zalipsky et al., Bioconjug Chem. 1997, 8, 111-8;
17. Zalipsky et al., Bioconjug Chem. 1995, 6, 705-8;
18. Merrifield, J. Am. Chem. Soc. 85, 2149 (1963);
19. Kaiser et al., Anal. Biochem. 1970, 34, 595-8;
20. Zalipsky S., Bioconjugate Chem., (1995), 6, 150-165;
21. Blume et al. (Biochim. Biophys. Acta, (1993) ,1149, 180-184;
22. Zalipsky S., Bioconjugate Chem., 1993, 4, 269-299;
23. McArthur et al., Can. J Chem., 1982, 60, 1836;
24. Moon et al., Tetrahedron Lett., 1994, 35, 8915;
25. Englebrechtsen et al., Tetrahedron Lett., 1995, 36, 8871-8874;
26. Barker et al., J. Med. Chem. 1992, 35, 2040-2048;
27. Or et al., J. Org. Chem., 1991, 56, 3146-3149;
28. Szoka et al., Ann. Rev. Biophys. Bioeng., 1980, 9, 476;
29. Hope et al, Biochim. Biophys. Acta., 1985, 812m 55-65;
30. Mayhew et al, Biochim. Biophys. Acta., 1984, 775 169-174;
31. Lelkes, P.I. Liposome Technology, Gregoriadis, G., ed. 2nd ed., Vol. I, CRC Press, Boca Raton, Fla., 1992, pp. 49-65;
32. Mayer et al., Biochemistry, 1988, 27, 2053-2060;
33. Haran et al., Biochim. Biophys. Acta., 1993, 1151, 201-215;
34. Hug P. and Sleight R.G., Biochim. Biophys. Acta., 1991, 1097:1-17;
35. Nabel et al., Proc. Natl. Acad. Sci. U.S.A., 1993, 90, 11307-11311;
36. Gao, X. and Huang L., Biochemistry, 1996, 35, 1027-1036;
37. Whitmore et al., Gene Ther., 1999, 6, 1867-1875;
38. Wang, S., J. Am. Chem. Soc., 1973, 95, 1328;
39. Lu et al., J. Org. Chem., 1981, 46, 3433;
40. Barlos et al., Int. J. Peptide Protein Res., 1991, 37, 513;
41. Barlos et al., Int. J. Peptide Protein Res., 1991, 38, 562;
42. Rink, H., Tetrahedron Lett., 1987, 28, 3787;
43. Bernatowicz et al., Tetrahedron Lett., 1989, 30, 4645.; and
44. Post Card in acknowledgement of receipt of all transmitted materials.

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Respectfully submitted,



May Lin DeHaan

Reg. No. 42,472


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 LARIVIERE, GRUBMAN & PAYNE, LLP
 Post Office Box 3140
 Monterey, CA 93942
 (831) 649-8800

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**COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231**

INFORMATION DISCLOSURE STATEMENT

Applicant hereby makes available the references listed on the enclosed form PTO-1449, Information Disclosure Statement to assist the Patent and Trademark Office in its examination of this application.

The disclosure of the references does not constitute an admission that they are relevant

or material to the claims or are "prior art" to the subject application. No representation is made that better references do not exist.

Complete copies of the references are enclosed.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "May Lin DeHaan", with a long horizontal flourish extending to the right.

May Lin DeHaan
Reg No. 42,472

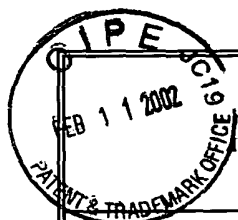
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February 11, 2002
LARIVIERE, GRUBMAN & PAYNE, LLP
P.O. Box 3140
Monterey, CA 93942-3140
(831) 649-8800

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Substitute for FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Application Number 10/016,569
		Filing Date December 7, 2001
		First Named Inventor Shih-Kwang Wu
Sheet 1 of 2		Attorney Docket No. P1379

U.S. PATENT DOCUMENTS

Examiner Initial	Cite No.	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	US 5,969,099	Anderson et al.	October 19, 1999	
	2	US 5,789,382	Wellstein	August 4, 1998	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document Office Number Code	Name of Patentee or Applicant of Cited document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	EP0 620 008 A1	Gozes et al.	October 19, 1994	
	2	WO 00/03245	Chugai Pharmaceutical Co. Ltd.	January 20, 2000	
	3	JP 60-109599		June 15, 1985	
	4	WO 97/15593	Queen's University at Kingston	May 1, 1997	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	1	Maruyama et al., Biochim Biophys Acta. 1995, 1234, 74-80
	2	Allen T.M., Trends Pharmacol Sci. 1994, 15, 215-220
	3	Ahmad et al., Cancer Res. 1993, 53, 1484-8
	4	Suzuki et al., Biochim Biophys Acta., 1995, 1245, 9-16
	5	Eavarone et al., J Biomed Mater Res. 2000, 51, 10-4
	6	Gabizon et al., Bioconjug Chem. 1999, 10, 289-98
	7	Zalipsky et al., Bioconjug Chem. 1997, 8, 111-8
	8	Zalipsky et al., Bioconjug Chem. 1995, 6, 705-8

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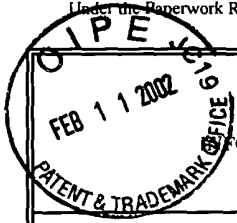
¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English Language Translation is attached.

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 <p>Substitute for FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)</p>		Application Number	10/016,569
		Filing Date	12/7/2001
		First Named Inventor	Shih-Kwang Wu
		Attorney Docket No.	P1379
Sheet 2 of 2			
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
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	9	Merrifield, J. Am. Chem. Soc. 85, 2149 (1963)	
	10	Kaiser et al., Anal. Biochem. 1970, 34, 595-8	
	11	Zalipsky S., Bioconjugate Chem., (1995), 6, 150-165	
	12	Blume et al., Biochim. Biophys. Acta, (1993), 1149, 180-184	
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	15	Moon et al., Tetrahedron Lett., 1994, 35, 8915	
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	19	Szoka, et al., Ann. Rev. Biophys. Bioeng., 1980, 9, 476	
	20	Hope et al., Biochim. Biophys. Acta., 1985, 812, 55-65	
	21	Mayhew et al., Biochim. Biophys. Acta., 1984, 775, 169-174	
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	28	Whitmore et al., Gene Ther., 1999, 6, 1867-1875	
	29	Wang S., J. Am. Chem. Soc., 1973, 95, 1328	
	30	Lu et al., J. Org. Chem., 1981, 46, 3433	
	31	Barlos et al., Int. J. Peptide Protein Res., 1991, 37, 513	
	32	Barlos et al., Int. J. Peptide Protein Res., 1991, 38, 562	
	33	Rink, H., Tetrahedron Lett., 1987, 28, 3787	
	34	Bematowicz et al., Tetrahedron Lett., 1989, 30, 4645	
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